

**AMENDMENTS TO THE SPECIFICATION**

**Please replace the paragraph starting page 3 line 24 with the following paragraph**

[Figure 5 shows] Figs. 5A and 5B show a comparison between normal and abnormal squamous cells, clustered by cell cycle phase. In Figure 5A, the traces of normal and abnormal cells are virtually indistinguishable, indicating that some cells in a sample of abnormal cells maintain normal spectral properties. We attribute these spectral patterns to be associated with inactive (non-dividing) cells of the G0 phase. The spectral traces in Figure 5B are believed to be due to the G1 phase. The traces due to abnormal cells agree well with those of the G1 trace observed in Figure 4, trace B, for cancerous ML-1 cells. We believe that the "normal" trace in Figure 5B differs from the abnormal ones by less DNA spectral contributions. This view is justified by the strong DNA features at  $1230\text{ cm}^{-1}$ , and the small DNA shoulder at  $970\text{ cm}^{-1}$  in the "abnormal" spectra.